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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics

In cooperation with

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS

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APPLE MANUFACTURES

THE USE OF APPLES IN CIDER MILLS,

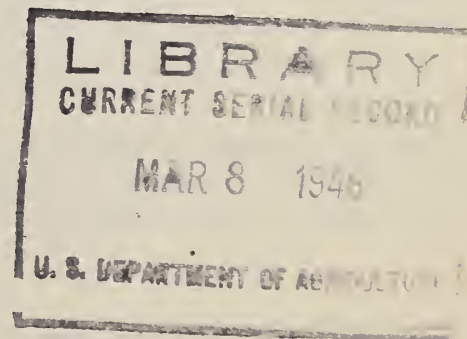
EVAPORATORS AND CANNERIES IN NEW YORK STATE

1937-46

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Albany, New York
February 1948



APPLE MANUFACTURES - 1937-46

This report completes 10 years of a series started in 1937. A separate report was not issued for the apple crop of 1945 which was a failure in most areas of New York.

Apple production has varied widely from year to year, estimates for the crops in the commercial counties of New York having been as follows:

Year	Bushels	Year	Bushels
1937	19,439,000	1942	18,997,000
1938	13,954,000	1943	13,602,000
1939	24,011,000	1944	17,010,000
1940	12,865,000	1945	2,160,000
1941	16,302,000	1946	15,116,000

Striking **developments** in recent years have been the upward trends in the preservation of apples by freezing and in the output of "apple juice". The entire apple processing field has become more complex. Canning factories often extend their operations through most of the winter by the use of stored apples. Although the use of apples from other states in New York plants had been noted each season, the recorded quantities were less than 100,000 bushels per year until the rapid increase noted in 1944, 1945 and 1946. In 1945, more than half the apples for manufacture came from other states, the sources being indicated in Table 7.

The statistics included here are those reported by processors roughly classified as cider mills, evaporators and canneries. There are some joint operations that include both cider mills and canneries. Canneries include a wide variety of processing, including the freezing of apples. Statistics for the relatively new industry of daily preparation and shipment of apples to pie bakeries are not included here except incidentally as it is carried on in or near areas of production in western New York. It has reached its highest development in New York City, using open market or contract purchases of apples the year around.

In addition to a wide variety of recognized food products, pomace from cider mills and skins and cores from canning factories yield substantial amounts of dried residue used for the extraction of pectin.

Many small processing plants, especially cider mills and evaporators which had been established when apple orchards were widespread throughout the state, have gone out of use permanently because of fire, conversion to other uses or abandonment, and the nearly complete disappearance of orchards in many areas. There appears to be a trend toward a smaller number of plants, having better equipment and more skillful operation and with a wider variety of products than in the past.

The facts in this publication were gathered from processors mainly by mailed questionnaires supplemented in a few cases by personal visitation by representatives of the Department of Agriculture and Markets, and with estimates for a few small concerns from whom reports were not received.

Cordial appreciation is expressed for the splendid cooperation of the people in the apple processing industries.

R.L.GILLET, Agricultural Statistician and
Director of Agricultural
Statistics.

Table 1.- Apples and apple products in cider mills, evaporators, and canneries,
New York, 1937-46

Year	: Cider Mills	: Evaporators	: Canneries	: Total
<u>Establishments in operation, Number 1/</u>				
1937	573	47	27	640
1938	452	29	22	500
1939	504	45	26	573
1940	383	19	27	427
1941	410	26	29	461
1942	315	42	27	374
1943	235	32	28	283
1944	241	30	38	300
1945	52	2	12	63
1946	213	13	38	261
<u>Apples received, net bushels 2/ 8/</u>				
1937	4,434,300	1,284,800	1,873,100	7,592,200
1938	2,621,800	373,900	866,200	3,861,900
1939	4,772,900	1,207,100	2,381,900	8,361,900
1940	2,309,000	199,400	1,686,600	4,195,000
1941	3,769,000	536,700	3,022,600	7,328,300
1942	3,578,700	1,120,800	3,208,000	7,907,500
1943	2,741,800	502,400	2,367,100	5,611,300
1944	3,980,900	441,100	3,185,800	7,607,800
1945	829,000	pomace only	588,200	1,417,200
1946	4,226,300	114,900	4,382,600	8,723,800
<u>Quantity of apples (included above) from other States, bushels</u>				
1937	9,600	-	1,000	10,600
1938	10,300	-	200	10,500
1939	6,800	-	600	7,400
1940	5,800	-	4,700	10,500
1941	11,700	-	5,800	17,500
1942	26,500	700	34,800	62,000
1943	95,700	-	2,750	98,450
1944	432,800	4,500	42,100	479,400
1945	317,500	-	489,000	806,500
1946	339,700	-	155,400	495,100
<u>Average price paid for apples, per 100 lbs. 3/</u>				
1937	\$.22	\$.33	\$.43	\$.29
1938	.26	.28	.58	.34
1939	.18	.27	.43	.26
1940	.28	.29	.75	.47
1941	.34	.57	1.19	.72
1942	.44	1.46	1.59	1.05
1943	1.13	2.86	3.12	2.12
1944	1.04	2.96	3.21	2.06
1945	2.77	-	6.69	5.15
1946	1.21	1.88	3.91	2.57

Table 1.- Apples and apple products in cider mills, evaporators and canneries,
New York, 1937-46 - Continued

Year	: Cider Mills	: Evaporators	: Canneries	: Total
Average date operations started and stopped 4/				
	Start	Stop	Start	Stop
1937	Oct. 4	Dec. 1	Oct. 4	Dec. 5
1938	Oct. 4	Nov.30	Oct. 5	Nov.16
1939	Oct. 2	Dec. 6	Oct. 8	Dec.19
1940	Oct. 7	Dec. 7	Oct.15	Nov.28
1941	Oct. 4	Dec. 6	Oct. 3	Dec. 9
1942	Oct. 5	Dec. 4	Sept29	Dec.22
1943	Oct. 7	Dec. 2	Oct. 6	Nov.30
1944	Oct. 4	Dec. 1	Oct. 4	Nov.29
1945	Sept22	Nov.23	-	-
1946	Sept29	Dec. 3	Oct.13	Dec.16

Apples used for principal purposes:

Used for cider, bushels 5/

1937	4,434,300	-	66,700	4,501,000
1938	2,621,800	-	9,000	2,630,800
1939	4,772,900	-	278,900	5,051,800
1940	2,309,000	-	69,100	2,378,100
1941	3,769,000	-	5,000	3,774,000
1942	3,578,700	-	10,000	3,588,700
1943	2,741,800	-	119,800	2,861,600
1944	3,980,900	-	13,000	3,993,900
1945	829,800	-	-	829,800
1946	4,226,300	-	6,200	4,232,500

Used for drying, bushels

1937	-	1,284,800	-	1,284,800
1938	-	373,900	-	373,900
1939	-	1,207,100	-	1,207,100
1940	-	199,400	-	199,400
1941	-	536,700	-	536,700
1942	-	1,120,800	-	1,120,800
1943	-	502,400	-	502,400
1944	-	441,100	-	441,100
1945	-	pomace only	-	-
1946	-	114,900	-	114,900

Used for canned apples and apple sauce, bushels

1937	-	-	1,657,700	1,657,700
1938	-	-	790,100	790,100
1939	-	-	1,987,800	1,987,800
1940	-	-	1,351,500	1,351,500
1941	-	-	2,580,600	2,580,600
1942	-	-	2,751,700	2,751,700
1943	-	-	1,865,400	1,865,400
1944	-	-	2,010,200	2,010,200
1945	-	-	440,800	440,800
1946	-	-	3,595,500	3,595,500

Table 1.- Apples and apple products in cider mills, evaporators and canneries,
New York, 1937-46 - Continued.

Year	: Cider Mills	: Evaporators	: Canneries	: Total
<u>Apples used for principal purposes - continued:</u>				
<u>Used for freezing, bushels 6a/</u>				
1942	-	-	39,300	39,300
1943	-	-	113,800	113,800
1944	-	-	577,400	577,400
1945	-	-	76,800	76,800
1946	-	-	459,400	459,400
<u>Used for other products, bushels 6/</u>				
1937	-	-	148,700	148,700
1938	-	-	67,100	67,100
1939	-	-	115,200	115,200
1940	-	-	266,000	266,000
1941	-	-	437,000	437,000
1942 Revised 6a/	-	-	407,000	407,000
1943 Revised 6a/	-	-	268,100	268,100
1944 Revised 6a/	-	-	585,200	585,200
1945	-	-	27,400	27,400
1946	-	-	321,500	321,500
<u>Principal products made:</u>				
<u>Cider pressed, gallons 5/</u>				
1937	18,493,800	-	353,600	18,847,400
1938	10,662,000	-	146,000	10,808,000
1939	19,949,600	-	1,707,000	21,656,600
1940	9,336,400	-	627,600	9,964,000
1941	16,599,100	-	412,000	17,011,100
1942	16,575,400	-	311,600	16,887,000
1943	12,290,900	-	1,346,800	13,637,700
1944	18,388,100	-	359,200	18,747,300
1945	3,391,400	-	8,000	3,399,400
1946	18,248,600	-	377,900	18,626,500
<u>Apple juice, gallons 5/, 6/</u>				
1940	2,665,300	-	695,000	3,360,300
1941	2,814,400	-	806,400	3,620,800
1942	3,336,500	-	348,500	3,685,000
1943	2,905,700	-	550,400	3,456,100
1944	5,284,600	-	978,000	6,262,600
1945	1,674,100	-	166,500	1,840,600
1946	7,134,700	-	476,500	7,611,200
<u>Dried apples, pounds</u>				
1937	-	7,101,200	-	7,101,200
1938	-	2,147,700	-	2,147,700
1939	-	7,076,700	-	7,076,700
1940	-	869,000	-	869,000
1941	-	3,056,700	-	3,056,700
1942	-	6,473,500	-	6,473,500
1943	-	2,736,200	-	2,736,200
1944	-	2,489,700	-	2,489,700
1945	-	none	-	none
1946	-	721,100	-	721,000

Table 1.- Apples and apple products in cider mills, evaporators and canneries, New York, 1937-46 - Concluded.

Year	: Cider Mills	: Evaporators	: Canneries	: Total
<u>Principal products made: continued</u>				
<u>Dried apple chops, pounds</u>				
1937	-	727,000	-	727,000
1938	-	192,300	-	192,300
1939	-	461,700	-	461,700
1940	-	469,400	-	469,400
1941	-	284,500	-	284,500
1942	-	356,700	-	356,700
1943	-	233,400	-	233,400
1944	-	194,000	-	194,000
1945	-	none	-	none
1946	-	67,000	-	67,000
<u>Dried skins and cores, pomace and waste, pounds 7/</u>				
1937	-	2,426,300	-	2,426,300
1938	-	104,000	-	104,000
1939	-	612,000	-	612,000
1940	-	454,200	-	454,200
1941	-	1,419,200	-	1,419,200
1942	-	3,587,100	-	3,587,100
1943	-	1,407,800	-	1,407,800
1944	-	1,704,100	-	1,704,100
1945	-	67,000	-	67,000
1946	-	1,721,000	-	1,721,000

1/ In a few cases operations of more than one type were carried on in a given establishment. The last column is the net number of establishments reporting, 7 joint operations having been noted in 1937, 3 in 1938, 2 in 1939, 4 in 1940, 4 in 1941, 10 in 1942, 12 in 1943, 9 in 1944, 4 in 1945 and 3 in 1946. "Custom" and "commercial" mills are included.

2/ Net receipts. Apples received at canneries and reported transferred to cider mills are included in cider mill receipts and not in cannery receipts. Of these there were reported, in bushels: 1937-20,100; 1938-8,100; 1939-35,600; 1940-28,700; 1941-65,600; 1942-94,100; 1943-140,900; 1944-116,400; 1945-10,100; 1946-236,100. Part of the apples were reported as bushels and part as pounds. One bushel assumed to equal 48 pounds. All of the data relate to the crop produced in the year indicated even though processing frequently runs over into the next calendar year.

3/ These prices are the average of "average or prevailing prices" as reported, excluding cases where the special uses called for unusual grades, etc. and weighted by the importance of the various districts.

4/ Includes averages of usual operations. In a number of cases, intermittent or unusual operations extended well into the following spring and are not included here. There is considerable difference in the length of the processing season at the various plants and in different parts of the State. In 1945, 1946 and 1947 operations continued until April or May in some plants. If plants operating after March 1 are included the average date of closing canning operations would be January 21, 1945 for the 1944 crop, December 24, 1946 for the 1945 crop and January 27, 1947 for the 1946 crop.

Footnotes Table 1 - Concluded

5/ Includes cider pressed from apple skins and cores. The quantity of apples used for cider in cider mills includes those used for "apple juice" in those establishments. No separate data were secured prior to 1940 when approximately 2,665,300 gallons of cider were sold as "apple juice", this term being equivalent to "sweet cider" in many cases, and about 29 percent of the total cider pressed in cider mills. In canneries, the "apple juice" first reported separately in 1940, is not included in cider pressed in those mills. In earlier years, apples used in canneries for "apple juice" were generally reported as used for products other than canned apples, apple sauce and cider, and were not separately tabulated.

6/ Including "apple juice" at canning factories, but not in cider mills where apples so used are included with those for cider. Small amounts of loss and shrinkage are included. Among other products in which these apples are used are jelly, apple butter, mincemeat, food for infants and in 1941 and earlier years frozen apples. In 1941, 1943, 1944, 1945 and 1946, some apples were sorted out and sold without processing.

6a/ Frozen apples were first asked for separately in 1944. The 1943 and 1942 frozen apple totals may be incomplete and these are not separated from "other products" in 1941 and earlier years. Some apples peeled and fresh-sliced for pies are included in upstate areas.

7/ In 1941, dried skins and cores amounted to 595,300 pounds and dried pomace 823,900 pounds; in 1942, dried skins and cores 1,461,100 pounds and dried pomace 2,126,000 pounds; in 1943 dried skins and cores 649,800 pounds and 758,000 pounds of dried pomace; in 1944 dried skins and cores 536,100 pounds and dried pomace 1,168,000 pounds; in 1945 dried pomace 67,000 pounds; in 1946 dried skins and cores 151,000 pounds and dried pomace 1,570,000 pounds.

8/ Ontario Dist. - Niagara, Orleans, Monroe, Wayne
Mid-western Dist. - Erie, Genesee, Wyoming, Livingston, Ontario, Yates,
Seneca, Tompkins
Hudson Dist. - Columbia, Dutchess, Putnam, Westchester, Greene, Ulster,
Orange, Rockland
Champlain Dist. - Clinton, Essex
Other Dist. - All counties not included above.

The districts used in the tables in this publication include counties as above.

Table 2.- Apples received at manufacturing plants, by districts, crops
of 1937-46 1/

District	: Cider Mills	: Evaporators	: Canneries	: Total
<u>Ontario</u>				
		1,000 bushels (net)		
1937	2,604	1,167	1,612	5,383
1938	1,305	347	798	2,450
1939	2,912	1,153	2,190	6,255
1940	1,131	166	1,545	2,842
1941	2,274	465	2,807	5,546
1942	2,046	945	2,942	5,933
1943	1,671	440	2,135	4,246
1944	2,308	398	2,795	5,501
1945	454	none	394	848
1946	2,543	84	3,940	6,567
<u>Mid-western</u>				
1937	324	88	200	612
1938	236	21	44	301
1939	392	20	141	553
1940	223	15	77	315
1941	265	32	111	408
1942	274	114	112	500
1943	138	22	70	230
1944	198	14	90	302
1945	2	none	11	13
1946	244	27	169	440
<u>Hudson</u>				
1937	554	-	-	554
1938	390	-	-	390
1939	467	-	-	467
1940	289	-	-	289
1941	336	-	-	336
1942	455	-	-	455
1943	276	-	-	276
1944	769	-	1	770
1945	153	none	-	153
1946	516	-	-	516
<u>Champlain</u>				
1937	14	-	-	14
1938	11	-	-	11
1939	15	-	-	15
1940	14	-	-	14
1941	22	-	-	22
1942	13	-	-	13
1943	7	-	-	7
1944	9	-	-	9
1945	1	none	-	1
1946	5	-	-	5

Table 2.- Apples received at manufacturing plants, by districts, crops of 1937-46- concluded

District	: Cider Mills	: Evaporators	: Canneries	: Total
<u>Other</u>		<u>1,000 bushels (net)</u>		
1937	938	30	61	1,029
1938	680	6	24	710
1939	987	34	51	1,072
1940	652	18	65	735
1941	872	40	104	1,016
1942	791	41	154	986
1943	650	40	162	852
1944	697	29	300	1,026
1945	221	none	183	404
1946	919	4	273	1,196

1/ The counties in the various districts are given in Footnote 8, page 6. State totals in Table 1, page 2. These include both New York and out of state apples.

Table 3. - Cider made, by districts, crops of 1937-46 1/

District	: Cider Mills	: Evaporators	: Canneries	: Total
<u>Ontario</u>		<u>1,000 gallons</u>		
1937	11,619	-	354	11,973
1938	5,617	-	146	5,763
1939	12,758	-	1,707	14,465
1940	4,885	-	628	5,513
1941	10,958	-	412	11,370
1942	10,547	-	312	10,859
1943	8,093	-	1,347	9,440
1944	11,014	-	269	11,283
1945	2,027	-	8	2,035
1946	11,360	-	378	11,738
<u>Mid-western</u>				
1937	1,534	-	-	1,534
1938	896	-	-	896
1939	1,674	-	-	1,674
1940	867	-	-	867
1941	1,069	-	-	1,069
1942	1,128	-	-	1,128
1943	541	-	-	541
1944	845	-	90	935
1945	5	-	-	5
1946	1,086	-	-	1,086
<u>Hudson</u>				
1937	1,947	-	-	1,947
1938	1,412	-	-	1,412
1939	1,671	-	-	1,671
1940	1,020	-	-	1,020
1941	1,134	-	-	1,134
1942	1,652	-	-	1,652
1943	984	-	-	984
1944	3,566	-	-	3,566
1945	567	-	-	567
1946	1,909	-	-	1,909

Table 3.- Cider made, by districts, crops of 1937-46 1/ -Concluded

District	Cider Mills	Evaporators	Canneries	Total
		1,000 gallons		
Champlain				
1937	49	-	-	49
1938	33	-	-	33
1939	40	-	-	40
1940	46	-	-	46
1941	68	-	-	68
1942	41	-	-	41
1943	23	-	-	23
1944	30	-	-	30
1945	2	-	-	2
1946	16	-	-	16
Other				
1937	3,345	-	-	3,345
1938	2,704	-	-	2,704
1939	3,807	-	-	3,807
1940	2,518	-	-	2,518
1941	3,416	-	-	3,416
1942	3,207	-	-	3,207
1943	2,650	-	-	2,650
1944	2,933	-	-	2,933
1945	790	-	-	790
1946	3,878	-	-	3,878

1/ See footnotes, Tables 1 and 2 for explanations. State totals in Table 1, Page 2

Table 4. - "Apple juice", by districts, crops of 1940-46 1/

District	Total						
	1940	1941	1942	1943	1944	1945	1946
		1,000 gallons				not av-	
Ontario ...	1,929	1,991	1,868	2,138	3,879	ailable	4,783
Mid-western.	289	322	180	158	116	by dist-	88
Hudson	305	268	826	221	528	riets	218
Champlain ..	15	33	23	16	21		10
Other	822	1,007	788	923	1,719		2,607
State total.	3,360	3,621	3,685	3,456	6,263	167	7,706

1/ See footnote, Tables 1 and 2 for explanations.

Table 5. - Yield of apple products from 100 pounds of fresh apples 1/ 1937-46

Product and district : 1937:1938:1939:1940:1941:1942:1943:1944:1945:1946

Cider from 100 pounds of fresh apples, gallons:

Ontario	7.6	7.3	7.2	7.5	7.4	7.4	7.6	7.6	8.0	7.6
Mid-western	7.0	7.1	6.9	7.0	7.0	7.1	7.0	7.2	-	6.9
Hudson	6.9	7.1	6.8	6.9	6.7	6.9	6.7	6.9	7.1	7.1
Champlain	6.3	6.5	7.0	7.2	6.6	6.8	6.4	6.7	-	6.6
Other	6.6	6.6	6.6	6.6	6.8	6.7	6.8	6.8	6.8	6.6
State average	7.3	7.1	7.0	7.1	7.2	7.2	7.3	7.3	7.5	7.4

Dried apples from 100 pounds of fresh apples, pounds:

State average	12.2	12.6	12.5	11.9	12.4	12.3	12.2	12.4	-	12.7
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Canned apples from 100 pounds of fresh apples, dozens No. 10 cans:

State average	.88	.85	.83	.84	.81	.79	.81	.83	-	.84
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Apple sauce from 100 pounds of fresh apples, cases of 24 No. 2 cans:

State average	2.59	2.61	2.60	2.60	2.51	2.59	2.60	2.66	2.75	2.42
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See Page 10, for footnote 1/

Footnote, Tables 4 and 5.

1/ The quantity of product reported as manufactured from 100 pounds of fresh apples varied rather widely. The above figures are averages of reports received, except that for cider the state average is derived from the district averages by weighting by the quantity of apples received at cider mills in each district. If weighted by individual mills, the averages would be somewhat higher, since in the large mills which handle a relatively large proportion of the cider apples, yields ranging from 8.0 to 9.8 gallons of cider per 100 pounds of apples were reported. The inclusion of cider derived from skins and cores removed from apples peeled in canneries and evaporators and pressed in cider mills prevents computations of accurately derived yields for the state as a whole.

Apple "chops" (dried) were made at the rate of 18 to 20 pounds from 100 pounds of fresh apples in 1944.

"Frozen" apples were made at the rate of about two 30-pound cans from 100 pounds of fresh apples in 1944, a similar ratio prevailing in 1945 and 1946. In 1946, more specific reports indicated an average of 1.5 pounds of fresh apples required for one pound of frozen apples.

See footnote, Table 1, for counties included in various districts.

Table 6. - Prices received for apples at manufacturing plants, by districts, crops of 1937 - 46. 1/

District	Cider Mills	Evaporators	Canneries	All
Per 100 pounds				
<u>Ontario</u>				
1937	\$.18	\$.33	\$.41	\$.28
1938	.23	.28	.57	.35
1939	.15	.27	.43	.27
1940	.26	.30	.74	.53
1941	.34	.59	1.19	.81
1942	.45	1.46	1.56	1.16
1943	1.22	2.90	3.07	2.32
1944	1.11	2.99	3.15	2.28
1945	2.98	-	6.53	4.63
1946	1.17	1.90	3.90	2.82
<u>Mid-western</u>				
1937	.24	.26	.52	.33
1938	.27	.25	.67	.33
1939	.19	.20	.46	.26
1940	.26	.25	.77	.39
1941	.34	.52	1.16	.58
1942	.42	1.42	1.74	.94
1943	.97	2.25	3.10	1.74
1944	1.05	2.75	3.38	1.82
1945	2.44	-	7.75	6.93
1946	1.19	1.75	4.00	2.30

Table 6.- Prices received for apples at manufacturing plants, by districts, crops of 1937 - 46 1/ -Concluded.

District	Cider Mills	Evaporators	Canneries	All
Per 100 pounds				
<u>Hudson</u>				
1937	.25	-	-	.25
1938	.26	-	-	.26
1939	.24	-	-	.24
1940	.34	-	-	.34
1941	.38	-	-	.38
1942	.40	-	-	.40
1943	.98	-	-	.98
1944	.88	-	-	.88
1945	2.47	-	-	2.47
1946	1.27	-	-	1.27
<u>Champlain</u>				
1937	.21	-	-	.21
1938	.46	-	-	.46
1939	.19	-	-	.19
1940	.30	-	-	.30
1941	.26	-	-	.26
1942	.31	-	-	.31
1943	.98	-	-	.98
1944	1.08	-	-	1.08
1945	-	-	-	-
1946	1.22	-	-	1.22
<u>Other</u>				
1937	.29	.40	.52	.31
1938	.33	.20	.80	.34
1939	.25	.18	.55	.26
1940	.33	.25	.94	.36
1941	.34	.35	1.26	.44
1942	.45	1.50	2.02	.74
1943	.99	2.75	3.72	1.59
1944	.98	2.75	3.72	1.83
1945	2.55	-	6.12	4.17
1946	1.19	-	4.00	1.83

1/ See footnotes, Tables 1 and 2 for explanations. State averages Table 1 Page 2

Table 7.-Apples received from other states at New York processing plants, crop of 1944, 1945 and 1946

	1944	1945	1946
<u>By states of origin 1/</u>		<u>Bushels</u>	
New England States	103,300	25,400	16,000
New Jersey, Pennsylvania	50,700	29,200	75,600
Ohio, Indiana, Illinois, Michigan	20,000	87,300	67,300
Delaware, Maryland, Virginia, West Virginia, Kentucky	305,400	169,400	334,700
Montana, Colorado, Idaho, New Mexico, Utah	-	176,200	-
Washington, Oregon, California	-	296,000	-
Other States	-	23,000	1,500
Total	479,400	806,500	495,100
<u>By district in New York in which received 2/</u>			
Ontario	376,700	672,000	448,700
Mid-western	31,300	9,400	-
Hudson, Champlain and Other	71,400	125,100	46,400
Total	479,400	806,500	495,100

1/ States grouped to prevent disclosure of individual operations. In a few cases receipts of apples from more than one state were grouped and the proportion to be credited to a given state was necessarily estimated.

2/ For counties included in each district see Footnote 8, Table 1, on Page 6.

